Desktop Application Programming

Individual Event

Performance Event with Judge Q & A

Regulations

- *Refer to National Competitive Event Guidelines for description and procedures.*
- Two copies of the program (DVD or Flash Drives) containing the executable object, source files(s) saved as .txt file(s), sample data file student used and a readme file (digital and print copy) must arrive at the State Office by **the first Wednesday in March**. The programs will be returned to the chapters and the first- and second-place winning programs may be revised for competition on the national level.
- No member may have competed in this event at a NLC.
- Entries will be judged according to the rating sheet.
- The solution must run standalone with no programming errors. Points will be deducted for logical errors.
- Programs must be accompanied by a readme file (digital and print copy) noting software used; name of participant, school and state; source of information; and instructions on running the program.
- The program must be designed so that the program will run when copied to a hard drive with this path C:\NLCdesktop\.
- **The Statement of Assurance event form (found on the Wisconsin FBLA site or on page 48) must be submitted to the State Office by the first Wednesday in March.**

The topic for 2014 is:

You have been contracted to develop the conference registration program for the 2014 FBLA National Fall Leadership Conferences. Your program will allow chapters to register members, advisers, and guests for one of the three NFLCs. It also will allow each registered participant to preregister for the workshops they will attend during the conference.

*You may use any programming language you desire to develop your program, but your program must read from and write to comma separated text files **(*.txt).** Your program must have a graphical user interface (not run from a command prompt) and must contain sample data. You must submit your code as text files (i.e., paste your code into a Notepad document and save as a *.txt file – place all text files of code in a folder call **TEXTCODE**). You also must supply all necessary supplemental programs/updates/add-ons necessary to run your program (full installs – not links to downloads). The program must run from a standalone executable file and should not require installation (i.e., your executable should **not** install the application on a computer – just run the program).*

DATA FILES

For this program you will create five comma separated data files as described below. You must save your data files as text (*txt) files. You will need to choose appropriate data types to store and manipulate your data while running the program.

Participants can register for any of the three NFLC conferences. You will create a data file called **CONFERENCES** that contains one record for each of the three conferences. This data file should contain four fields as follows:

- Unique code for the conference (abbreviation)
- Location of conference
- Begin date of conference
- End date of conference

There are three different types of conference participants: members, advisers, and guests. You will create a data file called **TYPE** that contains one record for each of the three participant types. This data file should contain two fields as follows:

- Unique code for the participant type (single letter)
- Description of participant type

It is necessary to keep track of all the conference participants; therefore, you will need to create a data file called **PARTICIPANTS** that contains one record for each registered participant. This data file should contain six fields as follows:

- unique number for each participant (can be an auto number)
- conference code (must match a code from the CONFERENCES data file)
- participant type (must match a code from the TYPES data file)
- participant first name
- participant last name
- chapter number

In order to allow participants to preregister for workshops, you must keep track of the workshops for each conference. You will create another data file called **WORKSHOPS** that will contain data on every workshop offering at all three NFLCs and will contain one record for each workshop time. This data file should contain six fields as follows:

- unique number for each workshop (can be an auto number)
- conference code (must match a code from the CONFERENCES data file)
- workshop name
- workshop description
- workshop date
- workshop start time

Finally, you must keep track of the workshop registrations. You will create a data file that tracks these registrations called **WKSHOP_REGISTRATIONS** with a record for each workshop registration containing two fields as follows:

- workshop ID (populated from the WORKSHOPS data file)
- participant ID (populated from the PARTICIPANTS data file)

REPORTS

Your program should run the following reports which should be viewable on screen and in printed formatted with the specifications listed for each report:

- All conference participants filtered by conference (i.e., select conference and only see associated records) sorted by each of the following:
  - participant type, last name
  - chapter number, participant type, last name (i.e., generate a chapter registration confirmation – each chapter should begin on a new page)
- Participant list for each workshop sorted by last name (each workshop should begin on a new page)
- Participant schedule showing all preregistered workshops, opening and closing sessions, and other major conference events (suggested formats include grid/matrix or agenda – each participant should begin on a new page)

Desktop Application Programming – Continued

Eligibility

- Each local chapter may enter one (1) member.
- Participants must not have competed in this event at a NLC.
- A member may enter only one individual or team event and one chapter event. Who's Who in FBLA does not count as an event.
- **The Statement of Assurance event form must be submitted to the State Office by the first Wednesday in March.**

Administration of Events

RLC	SLC
No RLC counterpart.	2 DVD or Flash Drives containing the executable object, source file(s) saved as .txt file(s) sample data file student used and a readme file (digital and print copy) must be received by the State Office on **the first Wednesday in March.**
	The DVD or Flash Drives must be labeled with the name of the event, state, participant and school.
	The top 8 finalists will present a seven minute oral presentation at SLC. Finalists and schedules will be posted at SLC, not before.
	Five minutes will be allowed for the setup of equipment. Each individual must provide their own computer and projection device (or television and DVD player) for the presentation including a copy of the program.
	Programs should run on Windows XP or higher.
	DVD or Flash Drives should be free of viruses/malware.
	Oral presentations will only occur at SLC if there are 10 or more competitors in this event. Individual schools will be contacted after the first Wednesday in March to notify competitors if a performance will be required at SLC.
	Top THREE finishers advance to NLC competition.

Performance Event with Judge Q & A

Teams will have seven (7) minutes to present the case to describe the program. A timekeeper will stand at six (6) minutes and again at seven (7) minutes. When the presentation is finished, the timekeeper will record the time used, noting a deduction of five (5) points for any time over seven (7) minutes.

Following the presentation, judges will conduct a three (3) minute question-answer period.

Judging

- The rating sheet(s) the judges will use are found in the Wisconsin Competitive Event Guidelines.

FBLA DESKTOP APPLICATION PROGRAMMING

Production Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Program Readability and Style					
Appropriate identifiers used for variables, constants, arrays, objects, etc.	0	1–3	4–7	8–10	
Commentary provided line-by-line and/or section is readable, useful, and complete	0	1–7	8–14	15–20	
General program documentation is readable, useful, and complete (i.e. execution instructions, system requirements, etc.)	0	1–7	8–14	15–20	
Program Structure and Content					
Program is concise, does not contain unnecessary complexity or repetitive blocks of code (uses functions and sub routines as necessary)	0	1–7	8–14	15–20	
Appropriate data types are used for data storage to avoid drain on system resources	0	1–7	8–14	15–20	
Program follows a logical sequence to accomplish required tasks (unusual approaches are well documented)	0	1–3	4–7	8–10	
Results					
Program produces desired results (free of logic errors)	0	1–7	8–14	15–20	
Program handles user and/or data input errors well (coded to avoid run-time errors)	0	1–7	8–14	15–20	
Resulting output/feedback (onscreen and/or printed reports, alert/error messages, etc.) were useful	0	1–10	11–20	21–30	
Usability					
Program provides instructions or a help menu for user assistance	0	1–3	4–7	8–10	
User is able to navigate the program intuitively using a logical sequence (appropriate tab order for user input, asks for input in a logical sequence, etc.)	0	1–3	4–7	8–10	
Program interface, feedback, reports, etc. are free of spelling, punctuation, and grammatical errors	0	1–2	3–4	5	
Program aesthetics maintain user interest	0	1–2	3–4	5	
Subtotal					**/200 max.**
Penalty Points: Deduct five (5) points for not adhering to Guidelines (maximum of fifteen [15] points). □ 2 copies of media not received □ Statement of Assurance not received □ media labeled incorrectly					
Total Points					**/200 max.**

Name(s): _____

School: _____ State: _____

Judge's Signature: _____ Date: _____

Judge's Comments:

FBLA DESKTOP APPLICATION PROGRAMMING

Performance Rating Sheet

❑ Preliminary Round ❑ Final Round

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Content					
Description of the problem	0	1–2	3–4	5	
Description of the planning process used to design the program	0	1–3	4–7	8–10	
Description of program documentation	0	1–3	4–7	8–10	
Description of input/output and program parameters	0	1–5	6–10	11–15	
Description of how the program flows	0	1–7	8–14	15–20	
Description of program structures	0	1–5	6–10	11–15	
Description of the usefulness of the program	0	1–2	3–4	5	
Delivery					
Statements are well-organized and clearly stated; appropriate business language used	0	1–2	3–4	5	
Demonstrates self-confidence, poise, and good voice projection	0	1–2	3–4	5	
Demonstrates the ability to effectively answer questions	0	1–3	4–7	8–10	
Subtotal					**/100 max.**
Time Penalty Deduct five (5) points for presentation over seven (7) minutes. Time:					
Dress Code Penalty Deduct five (5) points when dress code is not followed.					
Penalty Deduct five (5) points for failure to follow directions.					
Total Points					**/100 max.**
Prejudged Score					**/200 max.**
Final Score (add total score and prejudged score)					**/300 max.**

Name(s): _____

School: _____ State: _____

Judge's Signature: _____ Date: _____

Judge's Comments: